Power Verification

Zeiss Individual™ single vision lenses are fully optically optimized for the lens aligned in the actual position of wear and personalized for the patients’ unique combination of frame size, shape and fit. Consequently, powers (sphere, cyl, axis, prism) measured using a standard focimeter will differ slightly from the prescribed values because they are optically compensated.

1. Use the special Zeiss Individual™ single vision Rx verification form that ships with your Rx lens order to verify the compensated Rx power at the prism reference point.

2. Check compensated Rx power at the prism reference point located 4 mm below the fitting cross and midway between the engravings.

3. Check for prism imbalance at the prism reference point, located 4 mm below the fitting cross.

To Locate Lens Engravings

Use a good light source and dark background to locate the engravings. The engraved design and material code is below the nasal logo. The personalized patient engraving is below the temporal logo.

Material Codes

50 = Hard Resin clear, Transitions® VI, and Polarized
59 = Polycarbonate clear, Transitions® VI, and Polarized
60 = 1.60 High Index
67 = 1.67 High Index and Transitions® VI

Prescribed prism of up to 3.00 ΔD per lens can be produced for a maximum of 6.00 ΔD in a pair of eyeglasses.

Dispensing Instructions

1. **VERIFY LENSES**
   - Complete lenses should have ink markings.
   - If there are no ink markings, see how to locate the lens engravings (below left).
   - The fitting cross should be at pupil center when eyeglasses are on the wearer.
   - Check that the patient engraving matches the lens order.

2. **RE-CHECK FRAME ADJUSTMENTS**
   - Pantoscopic angle.
   - Face form wrap angle.
   - Back vertex distance.

3. **PROVIDE CERTIFICATE OF AUTHENTICITY**
   - Deliver the Zeiss Individual™ Certificate of Authenticity with premium cleaning cloth.
   - Demonstrate the location of their personalized patient engraving (below the temporal logo).

Material Codes and Rx Range Availability

<table>
<thead>
<tr>
<th>Material Description</th>
<th>Color</th>
<th>Diameter**</th>
<th>Rx Range*</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.50 Hard Resin</td>
<td></td>
<td>75/80</td>
<td>-6.00 to +6.00D</td>
</tr>
<tr>
<td>1.50 Transitions® VI</td>
<td>Gray/Brown</td>
<td>75/80</td>
<td>-6.00 to +6.00D</td>
</tr>
<tr>
<td>1.50 NuPolar® Polarized</td>
<td>Gray/Brown</td>
<td>70/75</td>
<td>-6.00 to +6.00D</td>
</tr>
<tr>
<td>1.59 Polycarbonate</td>
<td></td>
<td>72/77</td>
<td>-10.00 to +8.00D</td>
</tr>
<tr>
<td>1.59 Polycarbonate Transitions® VI</td>
<td>Gray/Brown</td>
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<td></td>
<td>70/75</td>
<td>-12.00 to +8.00D</td>
</tr>
<tr>
<td>1.67 Transitions® VI</td>
<td>Gray/Brown</td>
<td>70/75</td>
<td>-12.00 to +8.00D</td>
</tr>
</tbody>
</table>

* Cylinder powers out to -4.00 D
** Please confirm diameter availability for minus power greater than -5.00D with your lab
How to fit Zeiss Individual™ personalized lenses

There are three ways to specify and order Zeiss Individual™ lenses:

• use the manual fitting tools to take personalized fitting measurements
• use i.Terminal™ by ZEISS digital centration device to automatically and accurately take the personal measurements (automates steps 3 to 7)  
• use the default values for panto, wrap and vertex in lieu of measurements

1 FRAME SELECTION
For best vision and appearance, encourage the patient to choose a frame in which the eyes are well centered. Nose pads are preferred to allow fine-tuning of the adjustment. Frames should be lightweight to reduce slippage.

2 PRE-ADJUST FRAME
The frame must be adjusted correctly before taking any measurements. Ensure the following:

• 7° to 12° pantoscopic angle is usual, however pantoscopic angles up to 30° can be specified
• Proper face form wrap, up to 15°
• Close frame fit (i.e., short vertex distance), without touching skin or eyelashes.

3 MARK PUPIL CENTER AND MEASURE MONOCULAR PUPILLARY DISTANCES
With the patient looking straight ahead into the distance, dot each lens at the center of the pupil. Measure monocular distance PDs using a digital pupillometer or a PD ruler.

4 DETERMINE FITTING HEIGHT
Using a PD ruler or the Zeiss Individual™ Lens Cut Out Chart (on the reverse side of this page), place the frame over the lens illustration with the dot over the fitting cross. Measure each monocular fitting height from the fitting cross to the lowest point of the inside rim of the frame.

5 MEASURE FRAME WRAP ANGLE
Using the Zeiss Individual™ Frame Wrap Tool (part #000-0139-14700), place the frame top down on the tool aligning bridge center and left lens as shown. Measure the frame wrap angle from the base of the tool to the right lens angle. Zeiss Individual™ is suitable for frame wrap up to 15°. If no frame wrap angle is specified in the lens order, an average value of 5° will be used.

6 PANTOSCOPIC TILT
With a pre-adjusted frame and the patient standing in profile looking straight ahead, use the Zeiss Individual™ Panto and Vertex Tool (part #000-0139-15450) to measure the pantoscopic tilt of the frame on their face. Place the vertical edge of the panto tool against the plane of the frame. The pendulum of the tool will automatically line up vertically and show the pantoscopic angle of the frame. Zeiss Individual™ is suitable for pantoscopic tilt up to 30°. If no pantoscopic tilt is specified in the lens order an average value of 9° will be used.

7 BACK VERTEX DISTANCE
With the patient standing in profile, place the ruler edge of the Zeiss Individual™ Panto and Vertex Tool along the frame temple with the zero “0” at the lens plane, and measure the distance in millimeters from the back of the lens to the front of the eye. Zeiss Individual™ is suitable for vertex distances of up to 20mm. If no vertex measurement is specified when ordering, then an average value of 12.0mm will be used.

8 VERIFY CUT OUT
Use the Zeiss Individual™ Lens Cut Out Chart to ensure proper lens cut out. Place the right lens over the Lens Cut Out circle, aligning the pupil center dot over the fitting cross; repeat with left lens. If frame falls outside the lens diameter available, lenses may not cut out. Please verify by material.

9 SPECIFY PERSONAL ENGRAVINGS
A three letter personalized patient engraving may be specified for Zeiss Individual™ lenses. Use this code for the patient’s name or initials as a proof of lens personalization.

Note: Due to the precise optical optimization of Zeiss Individual™ single vision, fitting height must be specified on all orders – including uncuts.

Zeiss Individual™ Accessories

<table>
<thead>
<tr>
<th>Item</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frame Wrap Tool</td>
<td>000-0139-14700</td>
</tr>
<tr>
<td>Panto and Vertex Tool</td>
<td>000-0139-15450</td>
</tr>
<tr>
<td>Single Vision Verification Mask</td>
<td>000-0139-15620</td>
</tr>
<tr>
<td>i.Terminal™ Reference Guide</td>
<td>000-0139-15180</td>
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</table>


000-0139-15640 06/09

For information contact:
Luzerne Optical Laboratories Ltd